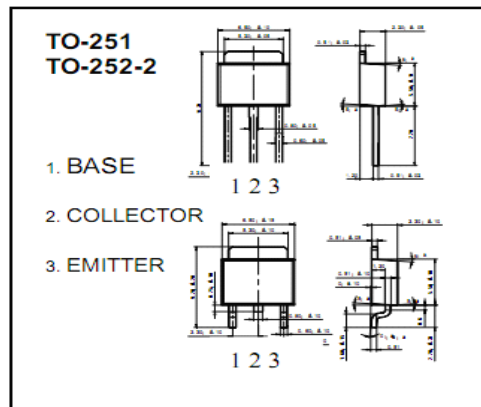


TO-251 Plastic-Encapsulate Transistors

13003 TRANSISTOR (NPN)

FEATURES

- power switching applications



MAXIMUM RATINGS (TA=25°C unless otherwise noted)

Symbol (符号)	Parameter (参数名称)	Value (额定值)	Units (单位)
VCBO	Collector-Base Voltage (集电极-基极电压)	700	V
VCEO	Collector-Emitter Voltage (集电极-发射极电压)	480	V
VEBO	Emitter-Base Voltage (发射极-基极电压)	9	V
IC	Collector Current -Continuous (集电极电流)	1.0	A
PC	Collector Power Dissipation (耗散功率)	0.9	W
TJ	Junction Temperature (结温)	150	°C
Tstg	Storage Temperature (储存温度)	-55-150	°C

ELECTRICAL CHARACTERISTICS (Tamb=25°C unless otherwise specified)

Parameter (参数名称)	Symbol (符号)	Test conditions (测试条件)	MIN (最小值)	TYP (典型值)	MAX (最大值)	UNIT (单位)
Collector-base breakdown voltage 集电极-基极击穿电压	V(BR)CB O	IC= 100μA, IE=0	700			V
Collector-emitter breakdown voltage 集电极-发射极击穿电压	V(BR)CE O	IC= 1mA, IB=0	480			V
Emitter-base breakdown voltage 发射极-基极击穿电压	V(BR)EBO	IE=100μA, IC=0	9			V
Collector cut-off current 集电极-基极截止电流	ICBO	VCB=600 V, IE=0			1	μ A
Collector cut-off current 集电极-发射极截止电流	ICEO	VCE=400V, IB=0			10	μ A
Emitter cut-off current 发射极-基极截止电流	IEBO	VEB=9V, IC=0			1	μ A
DC current gain 直流电流增益	hFE	VCE=10V, IC=100mA	8		30	
DC current gain 直流电流增益	hFE	VCE=5V, IC= 1mA	8			
Collector-emitter saturation voltage 集电极-发射极饱和压降	VCE(sat)	IC=200mA, IB=40mA			0.5	V
Base-emitter saturation voltage 发射极-基极饱和压降	VBE(sat)	IC=200mA, IB=40mA			1.2	V

CLASSIFICATION OF hFE

Range	8-15	15-20	20-25	25-30
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Typical Characteristics

13003

